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Principal Investigator Name: Michael W. Mislove

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Grant of Contract Title: Eighth Workshop on the Mathematical Foundations of Programming Semantics

Grant or Contract Number: N00014-92-J-1480

Reporting Period: 1 Apr 92 - 31 Mar 93

1) Productivity Measures:

Refereed papers submitted but not yet published: 0

Refereed papers published: 0

Unrefereed reports and articles: 0

Books or parts thereof submitted but not yet published: 0

Books or parts thereof published: 0

Patents filed but not yet granted: 0

Patents granted: 0

Invited presentations: 0

Contributed presentations: 0

Honors received: 0

Prizes or awards received: 0

Promotions obtained: 0

Graduate students supported $\geq 25\%$: 0

Post-docs supported $\geq 25\%$: 0

Minorities supported: 0

DISTRIBUTION STATEMENT

Approved for public release
Distribution Unlimited

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2) Summary of technical progress:

This grant provided support for the Eighth Workshop on the Mathematical Foundations of Programming Semantics, held at the University of Oxford from April 6 to April 10, 1992. The Workshop attracted 101 participants from 13 countries including the United States. Twenty-nine of the participants were graduate students. There were six invited hour talks, and 38 contributed 30-minute talks. These talks ranged from talks on abstract mathematical topics such as topology and category theory to work on the mathematical foundations underlying semantics issues, to applications of such theories to the semantics of various high-level programming languages.

There were two Special Sessions at the Workshop. The first was organized by J. M. Woodcock (Oxford) on Formal Methods, and featured a talk by Cliff Jones (Manchester). The second special session was on Linear Logic. It was organized by Samson Abramsky (Imperial College), and featured an address by J.-Y. Girard (Paris), as well as talks by Jean-Marc Andreoli (München) and Philip Scott (Edinburgh and Ottawa).

The Proceedings of the Workshop will be published as special issues of *Theoretical Computer Science*. Anticipating a potentially large number of submissions, an agreement with Professor Maurice Nivat, the Editor-in-Charge of *TCS*, has been reached whereby we can publish two issues as the Proceedings, instead of the usual one issue. Given the large number of submissions concerning linear logic, we anticipate devoting one of the special issues to this topic, and the other to the remaining papers. There were 30 submissions to the Proceedings. These papers are currently under review, and we expect to have complete reports on them sometime this summer, with revisions completed and final versions going to *TCS* by the end of this year. Given the delays in publishing, we then expect the special issues to appear sometime during 1994. Copies of the special issues will be forwarded to ONR once they appear.

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3) Publications:

- a) Refereed papers submitted but not yet published: none
- b) Refereed papers published: none
- c) Unrefereed reports and articles: none
- d) Books or parts thereof submitted but not yet published: none
- e) Invited presentations: none
- f) Contributed presentations: none

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5.) Transitions and DoD Interactions: none

6.) Software and hardware prototypes: none